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... of seven-and 63-chip **optical** code-division **multiple**-access encoders and ...[southampton.ac.uk](#)PC Teh, P Petropoulos, M Ibsen, DJ ... - Journal of Lightwave ... , 2001 - [opticsinfobase.org](#)

... grow in investigating alternative multiplexing schemes such as **optical** code division **multiple** access (OCDMA ... of **loss** such as the transmission line, **optical** circulator insertion **loss**, and cou ... 1 as measured using the SHG autocorrelator along with the corresponding **optical** spectra. ...

Cited by 135 - [Related articles](#) - [BL Direct](#) - [All 14 versions](#)Multiplexed and distributed **optical fibre** sensor systems[soton.ac.uk](#)JP Dakin - J. Phys. E, 1987 - [iopscience.iop.org](#)

... Low speed electronics. Good **optical loss** budget. ... Number of collection highway sensors mainly limited by frequency management (in case Of FDM coding). **Multiple** sources and detectors necessary. Difficulties become severe for more than 10-20 sensor channels/**fibre**. ...

Cited by 42 - [Related articles](#) - [BL Direct](#) - [All 18 versions](#)Low-**loss** polymeric materials for passive waveguide components in **fiber optical** ...M Zhou - Optical engineering, 2002 - [link.eip.org](#)

... With a broad range of property adjustability and **multiple** choices of processing approaches (photolithographic and several ... It has been mentioned before that the deuteration of methyl methacrylate monomer results in higher **optical** propagation **loss** in deuterated ...

Cited by 66 - [Related articles](#) - [BL Direct](#) - [All 7 versions](#)**Multiple fiber end preparation**

RM Hawk, JG Racki - US Patent 4,017,013, 1977 - Google Patents

... 4,017,013 **MULTIPLE FIBER END PREPARATION BACKGROUND OF THE INVENTION** Recent advances in the ... their publication entitled "**Optical Fiber** End Preparation for Low-**Loss** Splices," Bell ... entitled "**Optical Waveguide Connector**." A cable 48 of **optical** waveguide fibers ...

Cited by 22 - [Related articles](#) - [All 2 versions](#)**MEMS** electrostatic actuators for **optical** switching applicationsJD Grade, H Jerman - Optical Fiber Communication Conference ..., 2001 - [opticsinfobase.org](#)

... motion [6]. Both types of switches have shown less than 0.5 dB of **loss** with switching times ... For example, in the case of a linear array of 8 **optical** fibers, each 125  $\mu$ m in ... An alternative switch architecture uses **multiple** linear actuators to intercept and redirect the **optical** beam into a ...

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... Ion beam interference coating (IBIC) is a sputter-deposition process for **multiple** layers of **optical** thin films ... 2. WJ Gibson, "Ion-Beam Processing of **Optical** Thin Films," Phys. ... 3. V. Sanders, "High Precision Reflectivity Measurement Technique for Low-**Loss** Laser Mirrors," Appl. ...

Cited by 46 - [Related articles](#) - [All 8 versions](#)Efficient input and output **fiber** coupling to a photonic crystal waveguide[arxiv.org](#) [P]PE Barclay, K Srinivasan, M Borselli, O Painter - Optics letters, 2004 - [opticsinfobase.org](#)

... 0146-9592/04/070697-03\$15.00/0 © 2004 **Optical Society of America** ... lattice constants) of the transverse **grade** in hole radius while keeping the central waveguide hole radius fixed, resulting in a **loss** of transverse ... Ignoring for the moment the effects of **multiple** reflections in Eq. ...

Cited by 56 - [Related articles](#) - [BL Direct](#) - [All 20 versions](#)All **fiber** wavelength selective **optical** switch

DJ Fritz, TJ Bailey, GA Ball - US Patent 5,446,809, 1995 - Google Patents

... with **optical** Bragg gratings impressed therein, thus Use of such WDM increases the overall bandwidth of making the device inexpensive and easy to produce, the system. ... **multiple** inputs/single output; or **multiple** Also, high speed low-**loss** communication networks inputs ...

Cited by 28 - [Related articles](#) - [All 4 versions](#)

### Fabrication of Optical Fibres

SB Poole, DN Payne, RJ Mears, L Reekie, ... - Electronics ..., 1985 - freepatentsonline.com

... by the field nominally confined to the **fibre** core, which gives a higher than expected **loss** due to ... This illustrates the possibility of co-doping the deposited glass with **multiple** impurity ions. ... may also be used to incorporate other rare-earth and transition metal ions into **optical** fibres. ...

[Cited by 157](#) - [Related articles](#) - [All 9 versions](#)

### Optical multiple fiber

H Hayami, A Utsumi... - US Patent 4,690,500, 1987 - Google Patents

... OTHER PUBLICATIONS Kaiser et al. "Low **Loss** Single Material Fibers Made of 16 Claims, 4 Drawing Figures 3 1 2 ... and fusedly surrounding the **optical fiber** aggregate. The image-resolving power and flexibility of the **multiple fiber** were **grade E** and 290 mm., respectively. ...

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www.FiberOpticSystems.com  
Standard End Tips, Tubings

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### Fiber optic bundle

www.FiberTech-Optica.com  
/NIR/MIR transmission

Single, bifurcated, multi-legged UV/VIS

### Optical fiber - Wikipedia, the free encyclopedia

In spectroscopy, **optical fiber bundles** are used to transmit light from a  
.... In addition to light scattering, attenuation or **signal loss** can also occur  
due ...

en.wikipedia.org/wiki/Optical\_fiber - 16 hours ago - [Cached](#) - [Similar](#)

### Optical two-way TV transmission

by H Takahashi - 1979 - [Cited by 1](#) - [Related articles](#)

into an electrical **signal**, and then added to a **signal** with the same  
amplitude and opposite .... scattering **loss** at **fiber bundle** 1 to **optical**  
fiber splices, ...

www.opticsinfobase.org/ol/ViewMedia.cfm?id=6864&seq=0

### [PDF] Fiber Optics Basics

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Each individual **fiber bundle** moves freely within the inner sheath ... receiver receives the  
**optical signal** and converts it back into an electrical signal. ... choice for fiber optic  
communications. Attenuation is **loss** of optical ...

www.transition.com/TransitionNetworks/Resources/ervPDF/fiber\_wp.pdf

### Tapered fiber bundles for coupling light into and out of cladding ...

by DJ Digiovanni - 1999 - [Cited by 45](#) - [Related articles](#)

If an **optical signal** is passed through the pumped core, it will be amplified. .... **fiber** within  
the taper be capable of fusion splicing with low **loss** to ...

www.freepatentsonline.com/5864644.html

### Optical fiber configuration for dissipating stray light - Patent ...

A tapered **fiber bundle** for combining a plurality of separate **optical** ..... bend **loss** without  
disturbing the light **signal** propagating in core region 32. ...

www.faqs.org/patents/app/20090016681 - [Cached](#)

### Fiber Optics - Fiber or equipment for conducting, amplifying ...

**Fiber** optic light guides are **bundles** of optical fibers used for the controlled deliver ... **Fiber**  
optic switches route an **optical signal** without electro-optical and ... **Fiber** optic test  
equipment is used to detect the signal **loss**/change ...

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by T Xie - 2005 - [Cited by 25](#) - [Related articles](#)

tal results demonstrate this multimode **optical fiber-bundle-based** OCT system can achieve  
.... surfaces of the **fiber bundle** from overwhelming the **signal**, it is necessary to pol- ... in a  
coupling **loss** that degrades the lateral resolution ...

[chen.bli.uci.edu/publications/J74\\_fiberbundle.pdf](http://chen.bli.uci.edu/publications/J74_fiberbundle.pdf) - [Similar](#)

Microfabrication of pre-aligned **fiber bundle** couplers using ...

by R Yang - 2006 - [Cited by 5](#) - [Related articles](#)

When the mask for the **optical fiber bundle** coupler is designed, the fiberport ..... the  
longitudinal alignment accuracy and contributed to the **signal loss**. ...

[www.ncbi.nlm.nih.gov > Journal List > NIHPA Author Manuscripts](http://www.ncbi.nlm.nih.gov/Journal_List/NIHPA_Author_Manuscripts)

Active 1 × N **fiber** splitter with **optical** amplification for ...

by MM Suleiman - 1994 - [Related articles](#)

To diminish the **loss** of coherence properties of the original **signal**, **optical** amplification be ...

After the **optical fiber bundle** was prepared in this way, ...

[linkinghub.elsevier.com/retrieve/pii/0030401894900221](http://linkinghub.elsevier.com/retrieve/pii/0030401894900221)

**Optical** Dictionary - More than 10000 **Fiber** Optic Acronyms, Terms ...

Nov 3, 2009 ... Optical Cable-A cable that contains fibers or **bundles** of **fiber** lines that is  
designed for physical and optical (e.g. **optical signal loss** at ...

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Also try the **Fiber Optic** Product Selector Guide. **Signal Loss**. Valid for single-mode applications only. For multi-mode applications, please contact the ...

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### CommsDesign - Performing Fiber-Optic Cable Attenuation ...

Aug 12, 2003 ... Measuring attenuation on a **fiber-optic** cable may seem like a big task. ... The calculation of **loss** is established as a ratio between power launched and power .... result in degradations of the **signal** due to attenuation. ...

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### Return loss - Wikipedia, the free encyclopedia

In metallic conductor systems, reflections of a **signal** traveling down a ... are known (i.e. through measurements and/or **calculations**), then the return **loss** in dB ... **Fiber optic** transmission systems use lasers to transmit signals over ...

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This is the classic **fiber optic** cabling and is far and away the most prevalent fiber type in use .... in loss **calculations** are made due to a failure to include splices. ... The maximum **signal loss** across a piece of pre-existing fiber. ...

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... the **signal loss** using copper cabling. With **fiber**, the **signal loss** is the same across ....

The smaller of the two **calculations** should be used for the ...

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### Duct Loss Calculator On GlobalSpec

Find duct loss **calculator** related suppliers, manufacturers, products and ... **Fiber optic** test equipment is used to detect the **signal loss**/change through a ...

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### CALCULATOR CABLE LOSS"

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Power Budget and Margin **Calculations**. To ensure that the **fiber** system has sufficient ...

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THE accurate characterization of **signal loss** due to wave

by J Koning - 2005 - [Cited by 8](#) - [Related articles](#)

smaller than this is subject to **signal loss** due to radiation and bend loss [3]. .... [13] D. R.

Goff, **Fiber Optic** Reference Guide, 2nd ed. Boston, MA: Focal ...

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AK Ghatak, K Thyagarajan - 1998 - books.google.com

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A Oliphant, DL Barker, JR Stuelpnagel, MS ... - Biotechniques, 2002 - biotechniques.com

... We achieve miniaturization by using a **fiber-optic bundle** as a substrate for the highest-density microarray available today. ... The service facility is based on a proprietary laboratory information **management** system (LIMS) that uses informatic integration rather than mechanical ...

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U Utzinger, RR Richards-Kortum - Journal of Biomedical Optics, 2003 - link.aip.org

... 2.2 **Fiber Packing**. To manufacture flexible **fiber optic** cables with a large optically active area, fibers with diameters of 100 to 200  $\mu\text{m}$  are packed into **bundles**. ... An example diffuser is presented in Figure (a). Light exits the **fiber optic bundle** and enters a turbid cylindrical volume. ...

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A Muchandani, S Pan, W Chen - Biotechnology progress, 1999 - engr.ucr.edu

... b) xenon-arc lamp; (c) monochromator; (d) bifurcated optical **fiber bundle**; (e) monochromator ...

Conclusions In conclusion, an OPH-modified **fiber-optic** enzyme biosensor for direct, rapid, and ...EM; Connor, MA Genetic engineering approach to toxic waste **management**: Case study ...Cited by 50 - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 8 versions](#)**Fiber optic voice/data network**

LA Bergman - US Patent 4,866,704, 1989 - Google Patents

Page 1. United States Patent [19] Bergman [ii] Patent Number: [45] Date of Patent: 4,866,704

Sep. 12, 1989 [54] **FIBER OPTIC VOICE/DATA NETWORK** [75] Inventor: Larry A. Bergman, Van

Nuys, Calif. [73] Assignee: California Institute of Technology, Pasadena, Calif. [21] Appl. ...

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BE Barry, MJ Fasnacht, RR Schaffer - US Patent 5,640,482, 1997 - Google Patents

... affixed to said intermediate frame What is claimed is: members between said columnar arrays

of fastener sites, 1. A cable **management** rack for enabling securing, sup- 55 each said rd ^providing an oval cable Supp0rt porting and routing of **bundles** of **fiber optic** cables therea ...Cited by 15 - [Related articles](#) - [All 2 versions](#)**[BOOK] City of light: the story of fiber optics**[poetikhars.com](#) [

J Hecht - 2004 - books.google.com

... Bend a **fiber**, and the light turns the corner. Hold one end of a **bundle** of fibers close to a light bulb and let the other end splay out. ... but it ended up as a techno-artifact in my attic. I started hearing about **fiber optic** communications a couple of years later in 1974. ...

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M GRASSO, D BAGLEY - The Journal of urology, 1998 - Elsevier

... Complementary accessories were developed for specific treatments, including endoscopic

lithotripsy, **management** of urothelial lesions, treatment of upper urinary ... The first flexibleureteroscopes were based on soft, **fiber-optic bundles** that illuminated the upper urinary tract ...Cited by 111 - [Related articles](#) - [BL Direct](#) - [All 6 versions](#)**In vivo fiber-optic confocal reflectance microscope with an injection-molded plastic ...**[utexas.edu](#) [PDF]

K Carlson, M Chidley, KB Sung, M Descour, A ... - ... optics, 2005 - opticsinfobase.org

... 3. SB Cantor, MF Mitchell, G. Tortolero-Luna, CS Bratka, DC Bodurka, and R. Richards-Kortum,

"Cost-effectiveness analysis of diagnosis and **management** of cervical squamous ... 11. AF Gmitro

and D. Aziz, "Confocal microscopy through a **fiber-optic** imaging **bundle**," Opt ...

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[mit.edu](#) [PDF]

D Huang, EA Swanson, CP Lin, JS Schuman, ... - SPIE MILESTONE ..., 1998 - mit.edu

... For example, quantitative assessment of the RNFL thickness would be a major advance in the **management** of glaucoma, a disease for which there is no ... The **fiber optic** light path in the OCT scanner can potentially be coupled to optical **fiber** or **fiber bundles** in an ...

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**Calculating Fiber Optic Loss Budget. Criteria & Calculation Factors ...** A total **fiber loss** calculation is made based on the **distance** x the **loss** factor. ...

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**Calculating Fiber Loss and Distance.** From this point forward, all data transmitted over the fiber link is considered to be Full-Duplex (FDX). ...

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Jul 5, 2007 ... **Fiber Type, Loss Amount per 1 km. Multimode 62.5/125µm fiber @ ...**

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**Calculating Fiber Loss and Distances ...** the variables necessary to accurately provide such **distance** and **loss** specifications for your specific installation. ...

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Therefore, **calculation of** the total change in intensity involves both the ... Attenuation in **fiber** optics, also known as transmission **loss**, ... a low attenuation) is used for long-**distance fiber** optic cables; plastic **fiber** has a higher ...

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Finally, it will **calculate** the attenuation coefficient of the **fiber** by dividing **loss** by **distance** and present the result in dB/km, the normal units for ...

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### Fiber-Optic Cable (Linktionary term)

**Fiber-optic** cable employs photons for the **transmission** of digital signals across ... **Long-haul fiber-optic** cable is often bundled with anywhere from 100 to 800 ... Attenuation is signal **loss** over distance. Think of the light pulses as ...  
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### Assessment of radiation-induced loss for AT&T fiber-optic ...

by JB Haber - 1988 - [Cited by 6](#) - [Related articles](#)  
 HABER et al: RADIATION-INDUCED **LOSS** FOR AT&T **TRANSMISSION** SYSTEM. 151.  
 TABLE I. Radiation Sensitivities of AT&T's ... **fiber-optic** cable in the average underground environment .... tion-induced **loss** on typical **long-haul** and shorter span ...  
[ieeexplore.ieee.org/iel1/50/224/00003982.pdf?arnumber=3982](#)

### fiber optic Single Mode fiber to Multimode fiber Converter

A **loss** budget of 15 dB is provided which equates to a distance of approximately 20 kilometers. ... When **fiber optic** cable is employed in **long haul** or the wide area ... However, it can not compete with **fiber optic transmission**. ...  
[www.arselect.com/single\\_mode\\_fiber\\_to\\_multimode\\_fiber\\_converter.htm](#) - [Cached](#) - [Similar](#)

### Extron Electronics - Fiber Optic Transmission in A/V Comes of Age

When deploying **fiber optic transmission**, there are many important component choices to be made. ... reflective **loss** associated with step-index singlemode fiber. .... for most all network applications save **long haul** high-speed backbones. ...  
[www.extron.com/company/article.aspx?id=fiberoptic\\_ls](#) - [Cached](#)

### Encyclopedia of Laser Physics and Technology - optical fiber ...

Jul 25, 2009 ... However, the fiber **losses** are relatively high in this region, ... This window was originally used for **long-haul transmission**. ... The simplest type of **fiber-optic** communication system is a **fiber-optic** link providing a ...  
[www.rp-photonics.com/optical\\_fiber\\_communications.html](#) - [Cached](#) - [Similar](#)

### What is long-haul optics? - Definition from Whatis.com

Aug 16, 2001 ... **Long-haul** optics refers to the **transmission** of visible light signals ... An indirect contributor to **fiber optic** cable **loss** is the fact that ...  
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by MN Islam - 2004 - [Related articles](#)

Rotwitt et al., "Distributed Raman Amplifiers for **Long Haul Transmission** Systems," ..... to the **fiber optic transmission** link a **loss** of at least 6 decibels. ...

[www.freepatenonline.com/6778321.html](http://www.freepatenonline.com/6778321.html)

**IN long-haul fiber-optics** systems, inline amplifiers are pe-

by XQ Qi - 2008 - [Related articles](#)

riodically used to compensate for fiber **loss**. The interplay of the signal and amplifier noise ... can be employed in the middle of a **fiber-optics transmission** ..... phase conjugation for ultra **long haul** phase- shift-keyed **transmission**," ...

[www.opticsinfobase.org/JLT/viewmedia.cfm?uri=JLT-26-18-3210..0](http://www.opticsinfobase.org/JLT/viewmedia.cfm?uri=JLT-26-18-3210..0)

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### Fiber-optic bundle design for quantitative fluorescence measurement from tissue

[dartmouth.edu](#)

BWPG Burke - Appl. Opt., 1998 - [opticsinfobase.org](#)

... The tissue- simulating samples were **mixed** with 1% Intralipid by volume, which is a well ... is complicated by photochemical changes in the fluorescence quantum yield and by **attenuation** of the ... Although this **fiber-optic bundle** cannot help us to deduce changes that are due to the ...

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### Chemical sensors based on immobilized indicators and fiber optics

WR Seitz, MJ Sepaniak - Critical Reviews in Analytical ..., 1988 - [informaworld.com](#)

... **bundles** are prepared by combining two **bundles** of **fiber** such that they are randomly **mixed** at one ... **Attenuation** (dB) = 10 log I 2 /I, (12) ... The use of interferometric **fiber optic** sensors to detect physical parameters, including pressure fluctuations, temperature, and magnetic field ...

[Cited by 136](#) - [Related articles](#)

### ... TOLERANT MODULE FOR FIBER-OPTICAL BEAM CONTROL USING MIXED ...

NA Riza - US Patent App. 09/811,305, 2001 - Google Patents

... 22, 2000.; JE Ford and DJ DiGiovanni, "IxN **Fiber bundle** scanning switch," IEEE Photonics ...

SUMMARY DESCRIPTION OF THE INVENTION [0022] High resolution **fiber-optic attenuation** beam con- trol ... optical controls architec- tures using devices based on a **mixed** control mode ...

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### Fiber-optic chemical sensors and biosensors

[inescporto.pt](#)

OS Wolfbeis - Anal. Chem., 2002 - [pubs.acs.org](#)

... absorb the **fiber-optic** evanescent wave, and this results in an **attenuation** of transmitted ... A fluorescent **fiber-optic** biosensor system for the detection of Salmonella typhimurium uses particles and ... microalgae were immobilized in front of the tip of an optical **fiber bundle** inside a ...

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### ... reflectance from a finite blood medium: applications to the modeling of fiber optic ...

L Reynolds, C Johnson, A Ishimaru - Applied optics, 1976 - [opticsinfobase.org](#)

... ring source where the source function is independent of  $\theta$  and subject to **mixed** homogeneous boundary ... **Fiber Optic** Oximeter Catheter The **fiber optic** catheter illuminates blood by conveying light to the tip, or ... in the vicinity of the tip and transmit- ted by a second **bundle** of fibers ...

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### ... and optimization of a TiO2-coated fiber-optic cable reactor: photocatalytic ...

NJ Peil, MR Hoffmann - Environmental Science & Technology, 1995 - [pubs.acs.org](#)

... 1. The reactor system consists of a light source, a coated **fiber-optic bundle**, and a ...

The prepared fibers were bundled and polished by **Fiberoptic** Systems Inc., Simi Valley, CA. The 227-mL (25 x 3.4 ... efficiency of the bundled array is a function of both the **fiber** coating ...

[Cited by 112](#) - [Related articles](#) - [BL Direct](#) - [All 3 versions](#)

### Fiber-optic pH meter using NIR dye

H Lehmann, G Schwotzer, P Czerney, GJ ... - Sensors and Actuators B: ..., 1995 - Elsevier

... in the central sketch, light from the LDs is launched into the **fiber** by a simple collimator **optic**. ... The use of a beam splitter cube as reference beam splitter instead of a **fiberoptic** directional coupler ...

The **fiber** probe is connected to the photometric arrangement with SMA **fiber** plugs. ...

[Cited by 18](#) - [Related articles](#) - [All 2 versions](#)

### [citation] Optical communications research and technology: Fiber optics

TG Giallorenzi - Proceedings of the IEEE, 1978

[Cited by 31](#) - [Related articles](#) - [All 5 versions](#)

### A fiber-optic-based calibration system for the High Resolution Fly's Eye cosmic ray ...

JHV Girard, LR Wiencke, GC Archbold, JA ... - Nuclear Instruments and ..., 2001 - Elsevier

... The light flux from a **fiber-optic** output can be estimated. The **fiber** outputs have been **attenuated** to produce 50 pJ as measured by a calibrated photo-diode probe. Treating the Teflon as a point source, the flux at the probe is  $1.6 \times 10^6$  355 nm photons/sr. ...

[Cited by 3](#) - [Related articles](#) - [All 5 versions](#)

**Fiber optic probes for biomedical optical spectroscopy**

[psu.edu \[PDF\]](#)

U Utzinger, RR Richards-Kortum - Journal of Biomedical Optics, 2003 - [link.aip.org](#)

... is absorbed on the sides of the wedge (black paint or glue **mixed** with carbon ... the sum of the parallel and perpendicular polarized reflectance cancels common **attenuation** and the ... **Fiber optic** probes that measure polarized reflectance consist of a polarization-filtered white light ...

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Research and development of **fiber optic** modules,integrated optical ... The

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This paper discusses a **design tool**, termed FIDO (Fibre Diversity ... for their

successful rollout of a **fiber optic** cable **network** through suburban Wellington

.... TelstraSaturn initially considered a **SONET**-ring architecture (see [1]) ...

citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.82.540&rep...

### MetroWAND - FIBER OPTIC SERVICES

MetroWAND is a PC-based **network** planning **tool** developed for metropolitan

**network**: ... to implement WDM technology into an existing **SONET network**.

... Using MetroWAND 2.1, you can **design** and analyze dozens of **network**

scenarios in the ...

www.foservice.com/SOFTWARE/metrowand.htm - [Cached](#)

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www.pccconnection.com/.../50719-transition-networks-fiber-optic-sfp-sonet-sdh-1300nm-

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### Topological Network Design For SONET Ring Architecture - Systems ...

by H Luss - 1998 - [Cited by 24](#) - [Related articles](#)

with the introduction of **fiber optic**, high speed networks. Recent technological advances, such as synchronous optical .... The Bellcore **tool** also uses a clustering approach, ... and **SONET network design**. A sample of other related papers ...

[ieeexplore.ieee.org/iel4/3468/15644/00725349.pdf?arnumber=725349](http://ieeexplore.ieee.org/iel4/3468/15644/00725349.pdf?arnumber=725349)

### fiber optics and network design Resources | TechRepublic

This paper explores the challenges in engineering **SONET** rings to support higher ... Unlike **network design tools**, engineering operations have to reconfigure live ... **Fiber optics** will continue to be a major player in the delivery of ...

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### Tutorial on Optical Networking - SONET/SDH, DWDM

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Standards for **fiber optic** cable and other optical components have been ... A passive optical **network** (PON) is an all-optical **network** that utilizes only ... **SONET/SDH: Principles and Design** is an intensive, two-day course that ...

[www.eogogics.com/talkgogics/tutorials/optical-networking](http://www.eogogics.com/talkgogics/tutorials/optical-networking) - [Cached](#) - [Similar](#)

### Design of reliable SONET feeder networks

by JS Park - 2007 - [Related articles](#)

**Tools** and Actions: Review this Article ... We address the physical **SONET network design** problem of selecting stackable, ... T. Wu, D.J. Kolar and R.H. Cardwell, Survivable network architectures for broadband **fiber optic** networks: model ...

[portal.acm.org/citation.cfm?id=1231431.1231440](http://portal.acm.org/citation.cfm?id=1231431.1231440)

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... toolkit: A decision support system for designing robust and cost-effective **fiber-optic** ...

S Cosares, DN Deutsch, I Sanjeev, OJ Wasem - Interfaces, 1995 - jstor.org

... deploy high capacity **fiber-optic** tech ... This resulting architecture uses four times as many multiplexers and ten times as much **fiber** as that shown in Figure 1a. ... opment arm of the RBOCs, addressed these difficult problems in a form that can be applied to any **network**. ...

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... and surface finish in predicting **tool** wear using neural **network** and **design** of ...

SK Choudhury, G Bartarya - International Journal of Machine Tools and ..., 2003 - Elsevier

... obtain **tool** wear, machining zone temperature, Ra values and the signals from **fiber optic** device, for different combinations of machining parameters using **design** of experiments. 4. Some experiments were carried out for the validation of the results from DOE and neural **network** ...

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**Design** of logical topologies for wavelength-routed all-optical networks

[iastate.edu](#) [PDF]

R Ramaswami, KN Sivarajan - infocorn, 1995 - computer.org

... We then compare the performance of two heuristic topology **design** algorithms (that do take wavelength assignment constraints into account) against that of randomly ... Figure 1: A WDM **network** consisting of routing nodes interconnected by point-to-point **fiber-optic** links. ...

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Computer method for updating a **network design**

DL Tonelli, KM Maloney, KW Cronin, MH ... - US Patent 5,821,937, 1998 - Google Patents

... the discovered **network** configuration, placing device icons representing intelligent device objects on the **network design** sheet, selecting a ... oo~^^ Browse for **Design** Sheets ... ocn FIG.12 Media Palette Unshielded Twisted Pair Shielded Twisted Pair **Fiber Optic** Cable Analog ...

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[book] **Ethernet: the definitive guide**

[zcu.cz](#) [DOC]

CE Spurgeon - 2000 - portal.acm.org

... Building Your Ethernet System teaches you how to build twisted-pair and **fiber optic** media segments, as well as how to ... This book is the definitive guide for anyone wanting to build a scalable local area **network** (LAN) using ... I think it is so by **design** and don't consider it a flaw. ...

[Cited by 135](#) - [Related articles](#) - [All 9 versions](#)

[citation] Survivable SONET networks-**design** methodology

OJ Wasem, TH Wu, RH Cardwell, RB Belcore - IEEE Journal on Selected Areas in ..., 1994

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[citation] Computer-aided **design** procedures for survivable **fiber** opticonetworks

RH Cardwell, CL Monma, TH Wu, RB Belcore - IEEE Journal on Selected Areas in ..., 1989

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[book] **FDDI handbook: high-speed networking using **fiber** and other media**

R Jain - 1994 - portal.acm.org

... PREFACE: **Fiber** Distributed Data Interface (FDDI) is a 100-Mbps **fiber optic** local area **network** (LAN ... What if my organization needs to use a different size, or length of **fiber**? ... For **network** designers and researchers, it explains what **design** alternatives were considered during the ...

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[citation] ... update and preplanned configurations toachieve trunk **network** ...

BA Coan, WE Leland, MP Vecchi, A Weinrib, LT Wu, M ... - IEEE Transactions on ..., 1991

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**Chatoyant: a computer-aided-design tool** for free-space optoelectronic systems

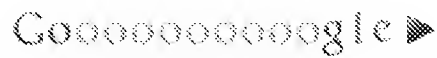
[psu.edu](#) [PDF]

SP Levitan, TP Kurzweg, PJ Marchand, MA ... - Optics, 1998 - opticsinfobase.org

... To date, there has been some research on computer- aided-**design** (CAD) systems exclusively for **fiber** networks.5 Other researchers have focused on me- chanical issues.6 Also ... For system-

level **design** and analysis, we have chosen to support geometric **optics** for the ...

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Today's optical **fiber attenuation** ranges from 0.5dB/km to 1000dB/km depending on ... transmitted per second along an optical **fiber** link in a commercial **network**, ... The modular **design** of loose-tube cables typically holds up to 12 fibers per .... Also, one or two fairly expensive installation **tools** may be required. ...

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As a **network** administrator, it is important to understand how to get the best ... Certification of **fiber optic** links requires the right test **tools**, ... An OTDR trace is a graphical signature of a fiber's **attenuation** along its length. ... the **design** and warrantee specifications for current and future applications. ...

[www.flukenetworks.com/fnet/en-us/learnAbout/OTDR](http://www.flukenetworks.com/fnet/en-us/learnAbout/OTDR) - [Cached](#) - [Similar](#)

### Enterprise Networks Tool Corporate Computer Network Design

Enterprise Networks **Tool** Corporate Computer **Network Design**- Optical technologies ... First, a brief overview of the **fiber optics** interconnects technology evolution ... In the 1960's, glass-clad fibers had an **attenuation** of about 1 dB/m, ...

[www.developers.net/intel/snshowcase/view/1177](http://www.developers.net/intel/snshowcase/view/1177) - [Cached](#) - [Similar](#)

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[photon-networks.com/Fiber\\_Optic\\_Technology\\_Training.doc](http://photon-networks.com/Fiber_Optic_Technology_Training.doc)

### WDM Network Design > Introduction to Optical Design

**Attenuation** in a fiber is characterized by the **attenuation** constant  $\alpha$ , which gives the loss (in dB) per ... System **design** based on OSNR is an important fundamental **design tool**. ...

**Fiber-Optic** Technologies: By Vivek Alwayn: Apr 23, 2004 ...

[www.ciscopress.com](http://www.ciscopress.com) / ... / General Networking - [Cached](#) - [Similar](#)

### What is Zero Water Peak Fiber? — Fiber Optic Communication - FAQ ...

Feb 9, 2010 ... Since the past several years, the **fiber optic** industry has been rapidly shifting from ... the standards require that the "water peak" **attenuation** at 1383 nm (after ... ZWP fiber can reach more customers, provide greater **network design** flexibility, ... **Fiber Optic Tools** (3). **Fiber Optic** Cleaver (2) ...

[www.fiberoptics4sale.com/wordpress/what-is-zero-water-peak-fiber/](http://www.fiberoptics4sale.com/wordpress/what-is-zero-water-peak-fiber/) - [Cached](#)

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### Diagnostic capability of **optical** coherence tomography in evaluating the degree of ...

[iovs.org \[HTML\]](#)

R Sihota, P Sony, V Gupta, T Dada, R Singh - Investigative ophthalmology &amp; ... 2006 - ARVO

 ... Correlation between **optical** coherence tomography, pattern electroretinogram, and visual evoked potentials in open-angle glaucoma patients. Ophthalmology. ... The histology of the retinal nerve **fiber** layer **bundles** and **bundle** defects. Arch Ophthalmol. ...

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### [PDF] New **optical** technologies for earlier endoscopic diagnosis of premalignant ...

[gastrohep.cor](#)

RS Dacosta, BC Wilson, NE Marcon - J Gastroenterol Hepatol, 2002 - gastrohep.com

 ... in one or more of the following factors: (i) the tissue architecture (mucosal thickening or **loss** of layered ... **Optical** filters block the detection of scattered excita- tion light. The **fiber bundle** probe, typically 0.5–1 mm in diameter, is delivered endoscopically via the biopsy channel and ...

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### [HTML] Effect of optic nerve head drusen on nerve **fiber** layer thickness

[nih.gov \[HTML\]](#)

S Roh, RJ Noecker, JS Schuman, TR Hedges III, ... - ... 1998 - ncbi.nlm.nih.gov

 ... that visible ONHD usually were associated with thinning or atrophy of the peripapillary nerve **fiber bundles**. ... field defects but did not always correlate with the degree of visual field **loss**. ... 20 **Optical** coherence tomography allowed us to better evaluate the NFL not only because of ...

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### ... alterations of dermal collagen **fiber bundles** in photodamaged human skin and UV ...

Y Nishimori, C Edwards, A Pearce, K ... - Journal of Investigative ... 2001 - nature.com

 ... The fibrous meshwork of the dermis becomes more disorganized, with **loss** of **fiber** integrity, and cross-linking of collagen ... Skin elongation was measured by an **optical** method with an accuracy of 0.01 mm using an infrared diode. ... Grading of dermal collagen **fiber bundles**. ...

[Cited by 26](#) - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)

### Analytical chemistry with **optical** sensors

OS Wolfbeis - Fresenius' Journal of Analytical Chemistry, 1986 - Springer

 ... 5. Current trends Numerous **optical** effects described in the past await their application to **optical** sensing ... a single species, it will become practise to combine several sensors in to a **bundle** in order ... This requires, however, that there is no cross-talk between the single **fiber** strands ...

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### Morphology of astrocytomas in tissue culture: **optical** and stereoscan microscopy

EJ Ambrose, U BATZDORF, DM ... - Journal of Neuropathology ... 1972 - journals.lww.com

 ... of the growth and appearance of gliomas in tissue culture viewed with the **optical** microscope and ... to be numerous and well organized, coursing in a direction parallel to that of the **fiber**. ... (11,12,13) We believe that these fascicles correspond to the subsurface fibril **bundles** seen in ...

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### Polymer **optical fibre bundle** and method of making same

JE Kuder, DP Karim, M Schorning - US Patent 5,222,180, 1993 - Google Patents

 ... The **optical** display applications a light conducting element of about **loss** due to the area mismatch in the case of circular ia centimeter (J") or more in diameter. ... We claim: 1. An **optical fiber bundle** including polymer **optical** fibers comprising in combination a plurality of ...

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### **Fiber optic probes for biomedical **optical** spectroscopy**

[psu.edu \[PDF\]](#)

U Utzinger, RR Richards-Kortum - Journal of Biomedical Optics, 2003 - link.aip.org

 ... The diffuser and the **bundle** with the collection fibers are placed adjacent. ... and R. Ulrich, "Mechanism of UV laser-induced absorption in fused silica fibers," **Fiber Integr** ... Grzesik, KH Worner, H. Henschel, O. Kohn, and HU Schmidt, "Radiation resistance of **optical** fibers: correlation ...

[Cited by 121](#) - [Related articles](#) - [BL Direct](#) - [All 27 versions](#)

### **Optical fiber** cable including a strain equalizing adhesive which constrains **optical** ...

SN Anclil, RF Gleason, GA Hadfield, JSB ... - US Patent ..., 1985 - Google Patents

... 8ated strength member may be fabricated out of high strength glass, in particular as a **bundle** of high strength SUMMARY OF THE INVENTION glass fibers ... including **optical** fibers having an **optical loss** character- Elastomer 22 is an **optical fiber** encapsulant, such as ...

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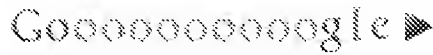
[PDF] [Transparent \*\*optical\*\* switches: Technology issues and challenges](#)

[psu.edu](#) [PDF]

G Ellinas, J Labourdette, S Chaudhuri, L Lin, E ... - ... Consortium 2003 Annual ... - CiteSeer

... y z 0 Figure 8: **Fiber Bundles** (b) Lenslet Arrays In order to achieve low **loss** through the switch fabric, collimation of the **optical** signals is ... as the **optical** fibers (see Figure 9). **Various** lenslet materials ranging from epoxies to glass, silicon, and polymers are being explored. ...

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Diagnostic capability of **optical** coherence tomography in evaluating the degree of ...[iovs.org](#) [H<sup>+</sup>]

R Sihota, P Sanyal, V Gupta, T Dada, R Singh - Investigative ophthalmology &amp; ... 2006 - ARVO

... **Optical** coherence tomography (OCT) is a noncontact, noninvasive diagnostic technique that allows ... based on inferior and average RNFL thickness, assessment of **various grades** of glaucomatous ... a recent study comparing RNFL thickness and visual field **loss** between **various** ...

Cited by 65 - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)Ion beam interference coating for ultralow **optical loss**DT Wei - Applied Optics, 1989 - [opticsinfobase.org](#)

... An indirect method can potentially determine even smaller total **loss** (to 1 ppm) in a single ... 6 However, those early sources were unsuitable for **optical** dielectrics due to electric charging and impurity ... a) the divergence of the beam and (b) the charging effect as **various** ions strike ...

Cited by 45 - [Related articles](#) - [All 8 versions](#)Absorption of low-**loss optical** materials measured at 1064 nm by a position- ...[ubc.ca](#) [PDF]V Lorette, C Boccard - Applied optics, 2003 - [opticsinfobase.org](#)

... A. We then describe the current state of the art in low-**loss** silica manufacturing ... as angles of incidence and beam waists, and adds the uncertainties of **optical** and thermal ... We used the collinear mirage technique to evaluate the absorption coefficients of **various grades** of Supra ...

Cited by 13 - [Related articles](#) - [BL Direct](#) - [All 12 versions](#)**Optical**, thermal and mechanical properties of CVD diamond

SE Coe, RS Sussmann - Diamond and Related Materials, 2000 - Elsevier

... At a frequency of 145 GHz dielectric **loss** tangents of <100 micro-radians are routinely achieved (note ... thermal **grade** has a thermal conductivity within 5% of the highest quality **optical grade**, but can ... 6. Temperature dependence of thermal conductivity for **various** DIAFILM **grades**. ...

Cited by 36 - [Related articles](#) - [All 5 versions](#)Low-**loss** polymeric materials for passive waveguide components in fiber **optical** ...M Zhou - Optical engineering, 2002 - [link.aip.org](#)

... The **various** factors contributing to **optical loss** in polymer waveguides can be divided into ... The currently available two **grades** of materials have which is too big in many ... Polymeric electro-optic materials: optimization of electro-optic activity, minimization of **optical loss**, and fine ...

Cited by 66 - [Related articles](#) - [BL Direct](#) - [All 7 versions](#)**Optical** properties of cyclic olefin copolymersG Khanarian, H Celanese - Optical Engineering, 2001 - [link.aip.org](#)

... Figure shows the **optical** transmission of Topas™ COC (**grade** 5013) in the visible and NIR region. It shows that it has **optical** windows at the important laser wavelengths of 1.06, 1.3, and 1.5 μm.

The **optical loss** has been expressed in decibels per centimeter in Fig. ...Cited by 48 - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)**Optical** mesophase texture and X-ray diffraction pattern of the early-stage ...

H Honda, H Kimura, Y Sanada, S Sugawara, T Furuta - Carbon, 1970 - Elsevier

... Primed in (.real Britain **OPTICAL** MESOPHASE TEXTURE AND X-RAY DIFFRACTION PATTERN OF ... changes of stacking height of lamellae, inter- lamellar spacing, weight **loss**, density and ... with residence time show nearly the same tendency at the **various** temperatures from ...

Cited by 60 - [Related articles](#)MEMS electrostatic actuators for **optical** switching applicationsJD Grade, H Jerman - Optical Fiber Communication Conference ..., 2001 - [opticsinfobase.org](#)

... John D. **Grade** and Hal Jerman Iolon, Inc., 1870 Lundy Ave., San Jose, California 95131 Voice: 408-952-5036, Fax: 408-952-5006, [jgrade@iolon.com](mailto:jgrade@iolon.com) ... **Optical** switches with 0.5 dB **loss** at 1550 nm have been made showing switching times less than 5 ms. ...

Cited by 16 - [Related articles](#) - [All 4 versions](#)

### Ultra-low-loss optical fiber nanotapers

G Brambilla, V Finazzi, DJ Richardson - Opt. Express, 2004 - opticsinfobase.org

... the fabrication of what as far as we are aware is the longest and lowest-loss submicron taper ... excellent uniformity and low-losses and further the possibility of developing nanophotonic components for **various** application areas including **optical** communications, sensing ...

[Cited by 109](#) - [Related articles](#) - [All 11 versions](#)

### Growth and characterization of MgO-doped LiNbO3 for electro-optic devices

Y Furukawa, M Sato, F Nitanda, K Ito - Journal of Crystal Growth, 1990 - Elsevier

... 4. The transmission was not calibrated for reflection **loss**. ... resistance In previous work [4,7-10], laser induced refractive index changes of LiNbO<sub>3</sub>, namely **optical** damage, has ... 6 shows the photoinduced change of birefringence versus irradiation time for **various** samples. ...

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